

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>[Signature]</i>	A1	2,934,904	05/03/1960	H.V. Hendrix			
	A2	3,534,822	10/20/1970	Campbell et al.			
	A3	3,763,652	10/09/1973	Rinta			
	A4	4,662,440	05/05/1987	Harmon et al.			
	A5	4,754,808	07/05/1988	Harmon et al.			
	A6	5,992,524	11/30/1999	Graham			
	A7	6,470,978 B2	10/29/2002	Trueman et al.			
<i>[Signature]</i>	A8	2005/0133219 A1	06/23/2005	Zupanick			
	A9						
	A10						
	A11						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1							
	B2							
	B3							
	B4							
	B5							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
<i>[Signature]</i>	C1	Notes on Consol Presentation (by P. Thakur) made at IOGA PA in Pittsburgh, Pennsylvania on May 22, 2002 (3 pages).
	C2	
	C3	
	C4	

Examiner Signature <i>Dan</i>	Date Considered 2/23/2006
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Mach 2003)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR § 1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1	3,163,211	12/29/1964	D.H. Henley			
	A2	3,578,077	05/11/1971	Glenn, Jr. et al.			
	A3	4,676,313	06/30/1987	Rinaldi			
	A4	4,705,109	11/10/1987	Ledent et al.			
	A5	4,718,485	01/12/1988	Brown et al.			
	A6	4,727,937	03/01/1988	Shum et al.			
	A7	5,016,709	05/21/1991	Combe et al.			
	A8	5,033,550	07/23/1991	Johnson et al.			
	A9	5,115,872	05/26/1992	Brunet et al.			
	A10	5,289,888	03/01/1994	Talley			
	A11	5,343,965	09/06/1994	Talley et al.			
	A12	5,941,307	08/24/1999	Tubel			
	A13	5,944,107	08/31/1999	Ohmer			
	A14	5,988,278	11/23/1999	Johnson			
	A15	6,079,495	06/27/2000	Ohmer			
	A16	6,089,322	07/18/2000	Kelley et al.			
	A17	6,170,571 B1	01/09/2001	Ohmer			
	A18	6,192,988 B1	02/27/2001	Tubel			
	A19	6,199,633 B1	03/13/2001	Longbottom			
	A20	6,247,532 B1	06/19/2001	Ohmer			
	A21	6,263,965 B1	07/24/2001	Schmidt et al.			
	A22	6,283,216 B1	09/04/2001	Ohmer			
	A23	6,318,457 B1	11/20/2001	Den Boer et al.			
	A24	6,491,101 B2	12/10/2002	Ohmer			
	A25	6,554,063 B2	04/29/2003	Ohmer			
	A26	6,557,628 B2	05/06/2003	Ohmer			
	A27	6,564,867 B2	05/20/2003	Ohmer			

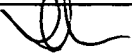
Examiner Signature



Date Considered

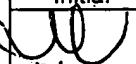

2/23/06

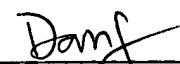
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672


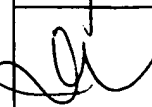
U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A28	2004/0020655 A1	02/05/2004	Rusby et al.			


Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1	WO 98/25005	06/11/1998	WIPO			N/A	
	B2	WO 2005/003509 A1	01/13/2005	WIPO			N/A	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C1	Dreiling, Tim, McClelland, M.L. and Bilyeu, Brad, "Horizontal & High Angle Air Drilling in the San Juan Basin, New Mexico," Believed to be dated April 1996, pp. 1-11
	C2	Technology Scene Drilling & Intervention Services, "Weatherford Moves Into Advanced Multilateral Well Completion Technology" and "Productivity Gains and Safety Record Speed Acceptance of UBS," <i>Reservoir Mechanics</i> , Weatherford International, Inc., 2000 Annual Report (2 pages)
	C3	Santos, Helio, SPE, Impact Engineering Solutions and Jesus Olaya, Ecopetrol/ICP, "No-Damage Drilling: How to Achieve this Challenging Goal?," SPE 77189, Copyright 2002, presented at the IADC/SPE Asia Pacific Drilling Technology, Jakarta, Indonesia, 09/09-11/2002, 10 pages
	C4	Santos, Helio, SPE, Impact Engineering Solutions, "Increasing Leakoff Pressure with New Class of Drilling Fluid," SPE 78243, Copyright 2002, presented at the SPE/ISRM Rock Mechanics Conference in Irving, Texas, 10/20-23/2002, 7 pages
	C5	Franck Labenski, Paul Reid, SPE, and Helio Santos, SPE, Impact Solutions Group, "Drilling Fluids Approaches for Control of Wellbore Instability in Fractured Formations," SPE/IADC 85304, Society of Petroleum Engineers, Copyright 2003, presented at the SPE/IADC Middle East Drilling Technology Conference & Exhibition in Abu Dhabi, UAE, 10/20-22/2003, 8 pages
	C6	P. Reid, SPE, and H. Santos, SPE, Impact Solutions Group, "Novel Drilling, Completion and Workover Fluids for Depleted Zones: Avoiding Losses, Formation Damage and Stuck Pipe," SPE/IADC 85326, Society of Petroleum Engineers, Copyright 2003, presented at the SPE/IADC Middle East Drilling Conference & Exhibition in Abu Dhabi, UAE, 10/20-22/2003, 9 pages
	C7	Craig C. White and Adrian P. Chesters, NAM; Catalin D. Ivan, Sven Maikranz and Rob Nouris, M-I L.L.C., "Aphron-based drilling fluid: Novel technology for drilling depleted formations," WORLD OIL, Drilling Report Special Focus, October 2003, 5 pages
	C8	Robert E. Snyder, "Drilling Advances," WORLD OIL, October 2003, 1 page


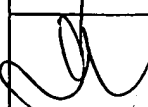
Examiner Signature 	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	


Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C9	U.S. Environmental Protection Agency, "Directional Drilling Technology," prepared for the EPA by Advanced Resources International under Contract 68-W-00-094, Coalbed Methane Outreach Program (CMOP), published December 2002, Website: http://search.epa.gov/s97is.vts , printed 3/17/2005, 13 pages
	C10	"Meridian Tests New Technology," Western Oil World, June 1990, Cover, Table of Contents and p. 13
	C11	Clint Leazer and Michael R. Marquez, "Short-Radius Drilling Expands Horizontal Well Applications," Petroleum Engineer International, April 1995, 6 pages
	C12	Terry R. Logan, "Horizontal Drainhole Drilling Techniques Used in Rocky Mountains Coal Seams," Geology and Coal-Bed Methane Resources of the Northern San Juan Basin, Colorado and New Mexico, Rocky Mountain Association of Geologists, Coal-Bed Methane, San Juan Basin, 1988, pp. cover, 133-142
	C13	Daniel J. Brunner; Jeffrey J. Schwoebel, and Scott Thomson, "Directional Drilling for Methane Drainage & Exploration in Advance of Mining," Website: http://www.advmingtech.com.au/Paper4.htm , printed April 6, 2005, Copyright 1999, Last modified August 7, 2002 (8 pages)
	C14	Karen Bybee, highlights of paper SPE 84424, "Coalbed-Methane Reservoir Simulation: An Evolving Science," by T.L. Hower, JPT Online, April 2004, Website: http://www.spe.org/spe/jpt/jsp/jptpapersynopsis/0,2439,1104,11038,2354946,2395832,00.html , printed April 14, 2005, 4 pages
	C15	Kevin Meaney and Lincoln Paterson, "Relative Permeability in Coal," SPE 36986, Society of Petroleum Engineers, Copyright 1996, pp. 231-236
	C16	Calendar of Events – Conference Agenda, Fifth Annual Unconventional Gas and Coalbed Methane Conference, October 22-24, 2003, in Calgary Alberta, Website: http://www.csug.ca/cal/cal0301a.html , printed March 17, 2005, 5 pages
	C17	Tom Engler and Kent Perry, "Creating a Roadmap for Unconventional Gas R&D," Gas TIPS, Fall 2002, pp. 16-20
	C18	CSIRO Petroleum – SIMEDWin, "Summary of SIMEDWin Capabilities," Copyright 1997-2005, Website: http://www.dpr.csiro.au/ourcapabilities/petroleumgeoengineering/reservoirengineering/projects/simedwin/assets/simed/index.html , printed March 17, 2005, 10 pages
	C19	Solutions From the Field, "Coalbed Methane Resources in the Southeast," Copyright 2004, Website: http://www.pttc.org/solutions/sol_2004/537.htm , printed March 17, 2005, 7 pages
	C20	Jeffrey R. Levine, Ph.D., "Matrix Shrinkage Coefficient," Undated, 3 pages
	C21	G. Twombly, S.H. Stepanek, T.A. Moore, "Coalbed Methane Potential in the Waikato Coalfield of New Zealand: A Comparison With Developed Basins in the United States, 2004 New Zealand Petroleum Conference Proceedings, March 7-10, 2004, pp. 1-6
	C22	R.W. Cade, "Horizontal Wells: Development and Applications," Presented at the Fifth International Symposium on Geophysics for Mineral, Geotechnical and Environmental Applications, October 24-28, 1993 in Tulsa, Oklahoma, Website: http://www.mgls.org/93Sym/Cade/cade.html , printed March 17, 2005, 6 pages

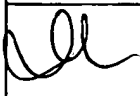
Examiner Signature 	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	


Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

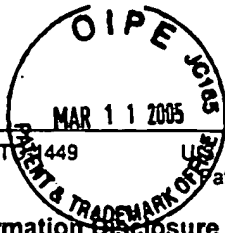
Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C23	Solutions From the Field, "Horizontal Drilling, A Technology Update for the Appalachian Basin," Copyright 2004, Website: http://www.pttc.org/solutions/sol_2004/535.htm , printed March 17, 2005, 6 pages
	C24	R. Purl, J.C. Evanoff and M.L. Brugler, "Measurement of Coal Cleat Porosity and Relative Permeability Characteristics," SPE 21491, Society of Petroleum Engineers, Copyright 1991, pp. 93-104
	C25	Peter Jackson, "Drilling Technologies for Underground Coal Gasification," IMC Geophysics Ltd., International UCG Workshop – October 2003 (20 pages)
	C26	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2005/002162 mailed April 22, 2005
	C27	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2005/005289 mailed April 29, 2005
	C28	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (5 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2004/036616 mailed February 24, 2005
	C29	Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (3 pages) for International Application No. PCT/US03/13954 mailed April 14, 2005
	C30	Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (5 pages) mailed January 18, 2005 and Written Opinion (8 pages) mailed August 25, 2005 for International Application No. PCT/US03/30126
	C31	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (5 pages) mailed November 10, 2000 for International Application No. PCT/US99/27494
	C32	Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (6 pages) mailed April 2, 2001 and Written Opinion mailed September 27, 2000 for International Application No. PCT/US99/27494
	C33	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (5 pages) mailed June 6, 2002 for International Application No. PCT/US02/02051
	C34	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (6 pages) mailed March 13, 2003 for International Application No. PC/US02/33128

Examiner Signature 	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672
(37 CFR §1.98(b))			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C35	Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (3 pages mailed April 22, 2004 and Written Opinion mailed September 4, 2003 for International Application No. PCT/US02/33128

Examiner Signature 	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
	Applicant Joseph A. Zupanick		
	Filing Date January 30, 2004	Group Art Unit 3672	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1						
	A2						
	A3						
	A4						
	A5						

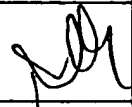
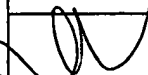
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1	WO 97/21900	06/19/1997	WIPO			N/A	
	B2							
	B3							
	B4							
	B5							

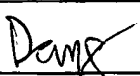
Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C1	Listing of 174 References received from Third Party on February 16, 2005 (9 pages)
	C2	Gardes Directional Drilling, "Multiple Directional Wells From Single Borehole Developed," Reprinted from July 1989 edition of Offshore, Copyright 1989 by PennWell Publishing Company (4 pages)
	C3	"Economic Justification and Modeling of Multilateral Wells," Economic Analysis, Hart's Petroleum Engineer International, 1997 (4 pages)
	C4	Mike Chambers, "Multi-Lateral Completions at Mobil Past, Present, and Future," presented at the 1998 Summit on E&P Drilling Technologies, Strategic Research Institute, August 18-19, 1998 in San Antonio, Texas (26 pages)
	C5	David C. Oyler and William P. Diamond, "Drilling a Horizontal Coalbed Methane Drainage System From a Directional Surface Borehole," PB82221516, National Technical Information Service, Bureau of Mines, Pittsburgh, PA, Pittsburgh Research Center, April 1982 (56 pages)
	C6	P. Corlay, D. Bossie-Codreanu, J.C. Sabathier and E.R. Delamaide, "Improving Reservoir Management With Complex Well Architectures," Field Production & Reservoir Management, World Oil, January 1997 (5 pages)

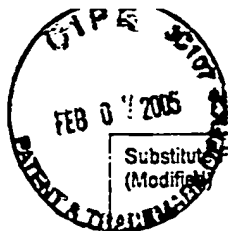
Examiner Signature 	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	C7	Eric R. Skonberg and Hugh W. O'Donnell, "Horizontal Drilling for Underground Coal Gasification," presented at the Eighth Underground Coal Conversion Symposium, Keystone, Colorado, August 16, 1982 (8 pages)
	C8	Gamal Ismail, A.S. Fada'q, S. Kikuchi, H. El Khatib, "Ten Years Experience in Horizontal Application & Pushing the Limits of Well Construction Approach in Upper Zakum Field (Offshore Abu Dhabi)," SPE 87284, Society of Petroleum Engineers, October 2000 (17 pages)
	C9	Gamal Ismail, H. El-Khatib – ZADCO, Abu Dhabi, UAE, "Multi-Lateral Horizontal Drilling Problems & Solutions Experienced Offshore Abu Dhabi," SPE 36252, Society of Petroleum Engineers, October 1996 (12 pages)
	C10	C.M. Matthews and L.J. Dunn, "Drilling and Production Practices to Mitigate Sucker Rod/Tubing Wear-Related Failures in Directional Wells," SPE 22852, Society of Petroleum Engineers, October 1991 (12 pages)
	C11	H.H. Fields, Stephen Krickovic, Albert Sainato, and M.G. Zabetakis, "Degasification of Virgin Pittsburgh Coalbed Through a Large Borehole," RI-7800, Bureau of Mines Report of Investigations/1973, United States Department of the Interior, 1973 (31 pages)
	C12	William P. Diamond, "Methane Control for Underground Coal Mines," IC-9395, Bureau of Mines Information Circular, United States Department of the Interior, 1994 (51 pages)
	C13	Technology Scene Drilling & Intervention Services, "Weatherford Moves Into Advanced Multilateral Well Completion Technology," <i>Reservoir Mechanics</i> , Weatherford International, Inc., 2000 Annual Report (2 pages)
	C14	"A Different Direction for CBM Wells," <i>W Magazine</i> , 2004 Third Quarter (5 pages)
	C15	Snyder, Robert E., "What's New in Production," <i>WorldOil Magazine</i> , February 2005, [retrieved from the internet on 3/7/2005], http://www.worldoil.com/magazine/MAGAZINE_DETAIL.asp?ART_ID=2507@MONTH_YEAR (3 pages)
	C16	Nazzal, Greg, "Moving Multilateral Systems to the Next Level," Strategic Acquisition Expands Weatherford's Capabilities, 2000 (2 pages)
	C17	Bahr, Angie, "Methane Draining Technology Boosts Safety and Energy Production," <i>Energy Review</i> , February 4, 2005, Website: www.energyreview.net/storyviewprint.asp , printed February 7, 2005 (2 pages)
	C18	Molvar, Erik M., "Drilling Smarter: Using Directional Drilling to Reduce Oil and Gas Impacts in the Intermountain West," Prepared by Biodiversity Conservation Alliance, Report issued February 18, 2003, 34 pages
	C19	King, Robert F., "Drilling Sideways – A Review of Horizontal Well Technology and Its Domestic Application," DOE/EIA-TR-0565, U.S. Department of Energy, April 1993, 30 pages

Examiner Signature 	Date Considered 9/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

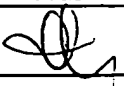
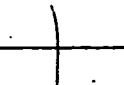
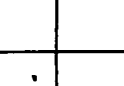
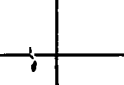
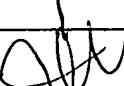

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>sa</i>	A1	4,417,829	11/29/1983	Berezoutzky			
	A2	4,889,186	12/26/1989	Hanson et al.			
	A3	5,676,207	10/14/1997	Simon et al.			
	A4	6,237,284 B1	05/29/2001	Erickson			
	A5	2004/0140129 A1	07/22/2004	Gardes			
<i>sa</i>	A6	2004/0226719 A1	11/18/2004	Morgan et al.			


Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
<i>sa</i>	B1	442,008	01/23/1936	United Kingdom			N/A	
	B2	444,484	03/17/1936	United Kingdom			N/A	
	B3	651,468	04/04/1951	United Kingdom			N/A	
	B4	893,869	04/18/1962	United Kingdom			N/A	
	B5	SU-876968	10/30/1981	Russia			Y	
<i>sa</i>	B6	WO 2004/035984 A1	04/29/2004	WIPO			N/A	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>sa</i>	C1	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages), and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2004/024518 mailed November 10, 2004
<i>sa</i>	C2	Schenk, Christopher J., "Geologic Definition and Resource Assessment of Continuous (Unconventional) Gas Accumulations – the U.S. Experience," Website, http://aapg.confex.com/.../ , printed November 16, 2004 (1 page)
<i>st</i>	C3	U.S. Department of Interior, U.S. Geological Survey, "Characteristics of Discrete and Basin-Centered Parts of the Lower Silurian Regional Oil and Gas Accumulation, Appalachian Basin: Preliminary Results From a Data Set of 25 oil and Gas Fields," U.S. Geological Survey Open-File Report 98-216, Website, http://pubs.usgs.gov/of/1998/of98-216/introl.htm , printed November 16, 2004 (2 pages)

Examiner Signature <i>Danz</i>	Date Considered <i>2/23/06</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C4	Zupanick, J., "Coalbed Methane Extraction," 28 th Mineral Law Conference, Lexington, Kentucky, October 16-17, 2003 (48 pages)
	C5	Zupanick, J., "CDX Gas – Pinnacle Project," Presentation at the 2002 Fall Meeting of North American Coal Bed Methane Forum, Morgantown, West Virginia, October 30, 2002 (23 pages)
	C6	Lukas, Andrew, Lucas Drilling Pty Ltd., "Technical Innovation and Engineering Xstrata – Oak Creek Coal Pty Limited," Presentation at Coal Seam Gas & Mine Methane Conference in Brisbane, November 22-23, 2004 (51 pages)
	C7	Field, Tony, Mitchell Drilling, "Let's Get Technical – Drilling Breakthroughs in Surface to In-Seam in Australia," Presentation at Coal Seam Gas & Mine Methane Conference in Brisbane, November 22-23, 2004 (20 pages)
	C8	Zupanick, Joseph A, "Coal Mine Methane Drainage Utilizing Multilateral Horizontal Wells," 2005 SME Annual Meeting & Exhibit, February 28 – March 2, 2005, Salt Lake City, Utah (6 pages)
	C9	The Official Newsletter of the Cooperative Research Centre for Mining Technology and Equipment, CMTE News 7, "Tight-Radius Drilling Clinches Award," June 2001, 1 page

Examiner Signature 	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR § 1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>SA</i>	A1	3,744,565	07/10/1973	Brown			
<i>SA</i>	A2	4,060,130	11/29/1977	Hart			
<i>SA</i>	A3	2002/0043404 A1	04/18/2002	Trueman et al.			

Foreign Patent Documents or Published Foreign Patent Applications


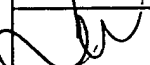
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
<i>SA</i>	B1	EP 1 316 673 A2	06/04/2003	EPO			N/A	
<i>SA</i>	B2	SU-876968	10/30/1981	Russia				X

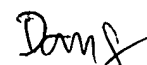
Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
<i>SA</i>	C1	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (5 pages) and Written Opinion of the International Searching Authority (6 pages) re International Application No. PCT/US2004/012029 mailed September 22, 2004
	C2	Brunner, D.J. and Schwoebel, J.J., "Directional Drilling for Methane Drainage and Exploration in Advance of Mining," REI Drilling Directional Underground, World Coal, 1999, 10 pages
	C3	Thakur, P.C., "A History of Coalbed Methane Drainage From United States Coal Mines," 2003 SME Annual Meeting, February 24-26, Cincinnati, Ohio, 4 pages
	C4	U.S. Climate Change Technology Program, "Technology Options for the Near and Long Term," 4.1.5 Advances in Coal Mine Methane Recovery Systems, pp. 162-164
	C5	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (7 pages) re International Application No. PCT/US2004/017048 mailed October 21, 2004
	C6	Gardes, Robert, "Multi-Seam Completion Technology," Natural Gas Quarterly, E&P, June 2004, pp. 78-81
	C7	Baiton, Nicholas, "Maximize Oil Production and Recovery," Vertical Brochure, received 10/2/2002, 4 pages
<i>SA</i>	C8	Dreiling, Tim, McClelland, M.L. and Bilyeu, Brad, "Horizontal & High Angle Air Drilling in the San Juan Basin, New Mexico," Dated on or about 3/6/2003, pp. 1-11

Examiner Signature <i>Dang</i>	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C9	Fong, David K., Wong, Frank Y., and McIntyre, Frank J., "An Unexpected Benefit of Horizontal Wells on Offset Vertical Well Productivity in Vertical Miscible Floods," Canadian SPE/CIM/CANMET Paper No. HWC94-09, paper to be presented March 20-23, 1994, Calgary, Canada, 10 pages
	C10	Fischer, Perry A., "What's Happening in Production," World Oil, June 2001, p. 27
	C11	Website of PTTC Network News Volume 7, 1 st Quarter 2001, Table of Contents, http://www.pttc.org/./news/v7n1nn4.htm printed 04/25/2003, 3 pages
	C12	Cox, Richard J.W., "Testing Horizontal Wells While Drilling Underbalanced," Delft University of Technology, August 1998, 68 pages
	C13	McLennan, John, et al., "Underbalanced Drilling Manual," Gas Research Institute, Chicago, Illinois, GRI Reference No. GRI-97/0236, copyright 1997, 502 pages
	C14	The Need for a Viable Multi-Seam Completion Technology for the Powder River Basin, Current Practice and Limitations, Gardes Energy Services, Inc., Believed to be 2003 (8 pages)
	C15	Langley, Diane, "Potential Impact of Microholes Is Far From Diminutive," JPT Online, http://www.spe.org/spe/jpt/jps , November 2004 (5 pages)
	C16	Consol Energy Slides, "Generating Solutions, Fueling Change," Presented at Appalachian E&P Forum, Harris Nesbitt Corp., Boston, October 14, 2004 (29 pages)

Examiner Signature 	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.

17601-038001

Application No.

10/769,221

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

Applicant

Joseph A. Zupanick

Filing Date

January 30, 2004

Group Art Unit

3672

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1	4,651,836	03/24/1987	Richards			
	A2	5,355,967	10/18/1994	Mueller et al.			
	A3	5,775,443	07/07/1998	Lott			
	A4						
	A5						
	A6						
	A7						
	A8						
	A9						
	A10						
	A11						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1							
	B2							
	B3							
	B4							
	B5							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	C1	PowerPoint Presentation entitled, "Horizontal Coalbed Methane Wells," by Bob Stayton, Computalog Drilling Services, date is believed to have been in 2002 (39 pages)
	C2	Denney, Dennis, "Drilling Maximum-Reservoir-Contact Wells in the Shaybah Field," SPE 85307, pages 60, 62-63, October 20, 2003
	C3	
	C4	

Examiner Signature

Date Considered

2/23/06


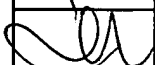
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.


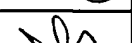
SUBSTITUTE Form PTO-1449 (Modified) SEP 02 2004 PATENT & TRADEMARK OFFICE (Use several sheets if necessary)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
	Information Disclosure Statement by Applicant		
	Filing Date January 30, 2004	Group Art Unit	


U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>[Signature]</i>	A1	2,797,893	07/02/1957	McCune et al.			
	A2	3,385,382	05/28/1968	Canalizo et al.			
	A3	3,582,138	06/01/1971	Loofbourow et al.			
	A4	3,587,743	06/28/1971	Howard			
	A5	4,020,901	05/03/1977	Pisio et al.			
	A6	4,030,310	06/21/1977	Schirtzinger			
	A7	4,136,996	01/30/1979	Burns			
	A8	4,151,880	05/01/1979	Vann			
	A9	4,182,423	01/08/1980	Ziebarth et al.			
	A10	4,222,611	09/16/1980	Larson et al.			
	A11	4,226,475	10/07/1980	Frosch et al.			
	A12	4,415,205	11/15/1983	Rehm et al.			
	A13	4,422,505	12/27/1983	Collins			
	A14	4,463,988	08/07/1984	Bouck et al.			
	A15	4,502,733	03/05/1985	Grubb			
	A16	4,533,182	08/06/1985	Richards			
	A17	4,536,035	08/20/1985	Huffman et al.			
	A18	4,603,592	08/05/1986	Siebold et al.			
	A19	4,753,485	06/28/1988	Goodhart			
	A20	4,776,638	10/11/1988	Hahn			
	A21	4,832,122	05/23/1989	Corey et al.			
	A22	5,127,457	07/07/1992	Stewart et al.			
	A23	5,148,877	09/22/1992	MacGregor			
	A24	5,226,495	07/13/1993	Jennings Jr.			
	A25	5,287,926	02/22/1994	Gruppig			
	A26	5,431,482	07/11/1995	Russo			
<i>[Signature]</i>	A27	5,697,445	12/16/1997	Graham			

Examiner Signature <i>[Signature]</i>	Date Considered <i>2/25/06</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

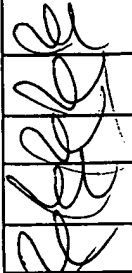
Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
	Applicant Joseph A. Zupanick		
	Filing Date January 30, 2004	Group Art Unit	




U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A28	6,019,173	02/01/2000	Saurer et al.			
	A29	6,030,048	02/29/2000	Hsu			
	A30	6,062,306	05/16/2000	Gano et al.			
	A31	6,065,551	05/23/2000	Gourley et al.			
	A32	6,119,776	09/19/2000	Graham et al.			
	A33	6,189,616	02/20/2001	Gano et al.			
	A34	6,244,340	06/12/2001	McGlothen et al.			
	A35	6,279,658	08/28/2001	Donovan et al.			
	A36	6,575,255	06/10/2003	Rial et al.			
	A37	6,591,922	07/15/2003	Rial et al.			
	A38	6,595,301	07/22/2003	Diamond et al.			
	A39	6,595,302	07/22/2003	Diamond et al.			
	A40	6,644,422	11/11/2003	Rial et al.			
	A41	6,646,441	11/11/2003	Thompson et al.			
	A42	6,722,452	04/20/2004	Rial et al.			
	A43	6,758,279	07/06/2004	Moore et al.			
	A44	2003/0164253 A1	09/04/2003	Trueman et al.			
	A45	2003/0221836 A1	12/04/2003	Gardes			
	A46	2004/0011560 A1	01/22/2004	Rial et al.			
	A47	2004/0033557 A1	02/19/2004	Scott et al.			
	A48	2004/0060351 A1	04/01/2004	Gunter et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1	AU 85/49964A	11/20/1986	Australia			Abstract Only	
	B2	CA 2,210,866	01/19/1998	Canada			N/A	

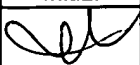

















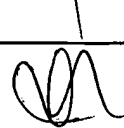
Examiner Signature 	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

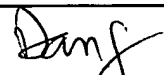
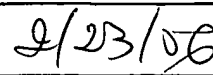
Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
	Applicant Joseph A. Zupanick		
	Filing Date January 30, 2004	Group Art Unit	

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B3	DE 197 25 996 A1	01/02/1998	Germany			Abstract Only	
	B4	EP 0 819 834 A1	01/21/1998	EPO			Abstract Only	
	B5	FR 964,503	08/18/1950	France			X	
	B6	WO 02/061238 A1	08/08/2002	WIPO			N/A	
	B7	WO 94/21889	09/29/1994	WIPO			N/A	







Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C1	B. Goktas et al., "Performances of Openhole Completed and Cased Horizontal/Undulating Wells in Thin-Bedded, Tight Sand Gas Reservoirs," SPE 65619, Society of Petroleum Engineers, October 17-19, 2000 (7 pages)
	C2	Sharma, R., et al., "Modelling of Undulating Wellbore Trajectories," The Journal of Canadian Petroleum Technology, Vol. 34, No. 10, XP-002261908, October 18-20, 1993 pp. 16-24 (9 pages)
	C3	Balbinski, E.F., "Prediction of Offshore Viscous Oil Field Performance," European Symposium on Improved Oil Recovery, August 18-20, 1999, 10 pages
	C4	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (7 pages) re International Application No. PCT/US 03/04771 mailed July 4, 2003
	C5	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (5 pages) re International Application No. PCT/US 03/21891 mailed November 13, 2003
	C6	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (4 pages) re International Application No. PCT/US 03/38383 mailed June 2, 2004
	C7	Kalinin, et al., Translation of Selected Pages from Ch. 4, Sections 4.2 (p. 135), 10.1 (p. 402), 10.4 (pp. 418-419), "Drilling Inclined and Horizontal Well Bores," Moscow, Nedra Publishers, 1997, 4 pages
	C8	Jet Lavanway Exploration, "Well Survey," Key Energy Surveys, November 2, 1997, 3 pages
	C9	Precision Drilling, "We Have Roots in Coal Bed Methane Drilling," Technology Services Group, Published on or before August 5, 2002, 1 page
	C10	U.S. Dept. of Energy, "New Breed of CBM/CMM Recovery Technology," July 2003, 1 page
	C11	Ghiselin, Dick, "Unconventional Vision Frees Gas Reserves," Natural Gas Quarterly, September 2003, 2 pages
	C12	CBM Review, World Coal, "US Drilling into Asia," June 2003, 4 pages
	C13	Skrebowski, Chris, "US Interest in North Korean Reserves," Petroleum, Energy Institute, July 2003, 4 pages
Examiner Signature 		Date Considered <u>2/23/06</u>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

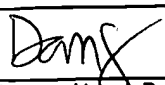
Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit

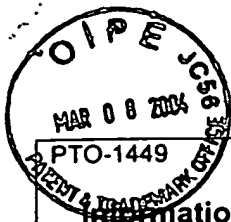
Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C14	Platt, "Method and System for Lining Multilateral Wells," S/N 10/772,841, February 5, 2004 (30 pages)
	C15	Zupanick, "Three-Dimensional Well System For Accessing Subterranean Zones," February 11, 2004, S/N 10/777,503 (27 pages)
	C16	Zupanick, "System And Method For Directional Drilling Utilizing Clutch Assembly," S/N 10/811,118, March 25, 2004 (35 pages)
	C17	Zupanick et al., "Slot Cavity," S/N 10/419,529, April 21, 2003 (44 pages)
	C18	Zupanick, "System and Method for Multiple Wells from a Common Surface Location," S/N 10/788,694, February 27, 2004 (26 pages)
	C19	Field, T.W., "Surface to In-seam Drilling – The Australian Experience," Undated, 10 pages
	C20	Drawings included in CBM well permit issued to CNX stamped April 15, 2004 by the West Virginia Department of Environmental Protection (5 pages)
	C21	Website of Mitchell Drilling Contractors, "Services: Dymaxion – Surface to In-seam," http://www.mitchelldrilling.com/dymaxion.htm , printed as of 06/17/2004, 4 pages
	C22	Website of CH4, "About Natural Gas – Technology," http://www.ch4.com.au/ng_technology.html , copyright 2003, printed as of 06/17/2004, 4 pages
	C23	Thomson, et al., "The Application of Medium Radius Directional Drilling for Coal Bed Methane Extraction," Lucas Technical Paper, copyrighted 2003, 11 pages
	C24	U.S. Department of Energy, DE-FC26-01NT41148, "Enhanced Coal Bed Methane Production and Sequestration of CO2 in Unmineable Coal Seams" for Consol, Inc., accepted October 1, 2001, 48 pages
	C25	U.S. Department of Energy, "Slant Hole Drilling," March 1999, 1 page
	C26	Desai, Praful, et al., "Innovative Design Allows Construction of Level 3 or Level 4 Junction Using the Same Platform," SPE/Petroleum Society of CIM/CHOA 78965, Canadian Heavy Oil Association, 2002, pp. 1-11
	C27	Bybee, Karen, "Advanced Openhole Multilaterals," Horizontal Wells, November 2002, pp. 41-42
	C28	Bybee, Karen, "A New Generation Multilateral System for the Troll Olje Field," Multilateral/Extended Reach, July 2002, 2 pages
	C29	Emerson, A.B., et al., "Moving Toward Simpler, Highly Functional Multilateral Completions," Technical Note, Journal of Canadian Petroleum Technology, May 2002, Volume 41, No. 5, pp. 9-12
	C30	Moritis, Guntis, "Complex Well Geometries Boost Orinoco Heavy Oil Producing Rates," XP-000969491, Oil & Gas Journal, February 28, 2000, pp. 42-46
	C31	Themig, Dan, "Multilateral Thinking," New Technology Magazine, December 1999, pp. 24-25
	C32	Smith, R.C., et al., "The Lateral Tie-Back System: The Ability to Drill and Case Multiple Laterals," IADC/SPE 27436, Society of Petroleum Engineers, 1994, pp. 55-64, plus Multilateral Services Profile (1 page) and Multilateral Services Specifications (1 page)

Examiner Signature 	Date Considered 
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C33	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (4 pages) re International Application No. PCT/US 03/13954 mailed September 1, 2003
	C34	Logan, Terry L., "Drilling Techniques for Coalbed Methane," Hydrocarbons From Coal, Chapter 12, Copyright 1993, Title Page, Copyright Page, pp. 269-285
	C35	Hanes, John, "Outbursts in Leichhardt Colliery: Lessons Learned," International Symposium-Cum-Workshop on Management and Control of High Gas Emissions and Outbursts in Underground Coal Mines," Wollongong, NSW, Australia, March 20-24, 1995, Title page, pp. 445-449
	C36	Williams, Ray, et al., "Gas Reservoir Properties for Mine Gas Emission Assessment," Bowen Basin Symposium 2000, pp. 325-333
	C37	Brown, K., et al., "New South Wales Coal Seam Methane Potential," Petroleum Bulletin 2, Department of Mineral Resources, Discovery 2000, March 1996, pp. i-viii, 1-96
	C38	Fipke, S., et al., "Economical Multilateral Well Technology for Canadian Heavy Oil," Petroleum Society, Canadian Institute of Mining, Metallurgy & Petroleum, Paper 2002-100, to be presented in Calgary Alberta, June 11-13, 2002, pages 1-11

Examiner Signature 	Date Considered 2/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



PTO-1449

Application No.
10/769,221Applicant(s)
Joseph A. ZupanickDocket Number
067083.0214

Group Art Unit

Filing Date
January 30, 2004Information Disclosure Citation
in an Application

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	1,488,106	03/25/1924	J. J. Fitzpatrick	N/A	N/A	02/05/1923
B	4,333,539	06/08/1992	Lyons et al.	175	61	12/31/1979
C	5,411,088	05/02/1995	LeBlanc et al.	166	265	08/06/1993
D	5,653,286	08/05/1997	McCoy et al.	166	105.5	05/12/1995
E	5,775,433	07/07/1998	Hammett et al.	166	98	04/03/1996
F	6,179,054	01/30/2001	Stewart	166	105.5	07/31/1998
G	6,357,530	03/19/2002	Kennedy et al.	166	369	09/27/1999

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION	
						YES	NO
H	SU-1448078-A1	03/25/1987	Russia	E21F	5/00-F 7/00	X	
I	SU-1770570-A1	03/30/1990	Russia	E21F	7/00	X	
J	SU-750108	06/26/1975	Russia	E21C	45/00	X	
K	WO 98/35133	08/13/1998	PCT	E21C	27/24	X	
L	WO 01/44620	06/21/2001	PCT	E21B	43/38	X	
M	GB 2 255 033	10/28/1992	Great Britain	B04B	11/02	X	
N	CA 2 278 735	01/13/1998	Canada	E21C	21/24	X	
O	CH 653 741	01/15/1986	Germany	E21B	43/24		X

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
P	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed February 9, 2004 (6 pages) re International Application No. PCT/US 03/28138.	09/09/2003
Q	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed February 27, 2004 (9 pages) re International Application No. PCT/US 03/30126.	09/23/2003
R	Fletcher, "Anadarko Cuts Gas Route Under Canadian River Gorge," Oil and Gas Journal, pp. 28-30	January 25, 2004
S	Translation of selected pages of Kalinin, et al., "Drilling Inclined and Horizontal Well Bores," Nedra Publishers, Moscow, 1997, 15 pages	1997
T	Translation of selected pages of Arens, V.Zh., "Well-Drilling Recovery of Minerals," Geotechnology, Nedra Publishers, Moscow, 7 pages, 1986	1986

EXAMINER

DATE CONSIDERED

*Dan**2/23/06*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. Patent and Trademark Office

1449	Application No. 10/769,221	Applicant(s) Joseph A. Zupanick	
Information Disclosure Citation in an Application	Docket Number 067083.0214	Group Art Unit	Filing Date January 30, 2004

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	54,144	04/24/1866	Hamar	N/A	N/A	
	B	274,740	03/27/1883	Douglass	N/A	N/A	12/02/1892
	C	526,708	10/02/1894	Horton	N/A	N/A	09/01/1893
	D	639,036	12/12/1899	Heald	N/A	N/A	08/21/1899
	E	1,189,560	07/04/1916	Gondos	N/A	N/A	10/21/1914
	F	1,285,347	11/19/1918	Otto	N/A	N/A	02/09/1918
	G	1,467,480	09/11/1923	Hogue	N/A	N/A	12/19/1921
	H	1,485,615	03/04/1924	Jones	N/A	N/A	12/08/1920
	I	1,520,737	12/30/1924	Wright	N/A	N/A	04/26/1924
	J	1,674,392	06/19/1928	Flansburg	N/A	N/A	08/06/1927
	K	1,777,961	10/07/1930	Capeliuschnicoff	N/A	N/A	04/04/1927
	L	2,018,285	10/22/1935	Schweitzer et al.	166	21	11/27/1934
	M	2,069,482	02/02/1937	Seay	255	76	04/18/1935
	N	2,150,228	03/14/1939	Lamb	166	10	08/31/1936
	O	2,169,718	08/15/1939	Boll et al.	255	24	04/01/1937
	P	2,335,085	11/23/1943	Roberts	251	197	03/18/1947
	Q	2,450,223	09/28/1948	Barbour	255	76	11/25/1944
	R	2,490,350	12/06/1949	Grable	166	4	12/15/1943
	S	2,679,903	06/01/1954	McGowen, Jr. et al.	166	1	11/23/1949
	T	2,726,063	12/06/1955	Ragland et al.	255	1.8	05/10/1952
	U	2,726,847	03/31/1952	McCune et al.	255	1.6	03/31/1952
	V	2,783,018	02/26/1957	Lytle	251	25	02/11/1955
	W	2,847,189	08/12/1958	Shook	255	76	01/08/1953
	X	2,911,008	11/03/1959	Du Bois	137	625.31	04/09/1956
	Y	2,980,142	04/18/1961	Turak	137	637.3	09/08/1958
	Z	3,208,537	09/28/1965	Scarborough	175	53	12/08/1960
	AA	3,347,595	10/17/1967	Dahms et al.	299	4	05/03/1965
	BB	3,443,648	05/13/1969	Howard	175	103	09/13/1967

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. Patent and Trademark Office

PTO-1449 Information Disclosure Citation in an Application	Application No. 10/769,221	Applicant(s) Joseph A. Zupanick	
	Docket Number 067083.0214	Group Art Unit	Filing Date January 30, 2004

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>Handwritten: A</i>	A.	3,473,571	10/21/1969	Dugay	137	625.4	12/27/1967
	B.	3,503,377	03/31/1970	Beatenbough et al.	123	117	07/30/1968
	C.	3,528,516	09/15/1970	Brown	175	267	08/21/1968
	D.	3,530,675	09/29/1970	Turzillo	61	35	08/26/1968
	E.	3,684,041	08/15/1972	Kammerer, Jr. et al.	175	267	11/16/1970
	F.	3,692,041	09/19/1972	Bondi	137	238	01/04/1971
	G.	3,757,876	09/11/1973	Pereau	175	267	09/01/1971
	H.	3,757,877	09/11/1973	Leathers	175	269	12/30/1971
	I.	3,800,830	04/02/1974	Etter	137	625.41	01/11/1973
	J.	3,809,519	05/07/1974	Garner	425	245	10/19/1972
	K.	3,825,081	07/23/1974	McMahon	175	73	03/08/1973
	L.	3,828,867	08/13/1974	Elwood	175	45	05/15/1972
	M.	3,874,413	04/01/1975	Valdez	137	625.47	04/01/1975
	N.	3,887,008	06/03/1975	Canfield	166	267	03/21/1974
	O.	3,902,322	09/02/1975	Watanabe	61	35	08/27/1973
	P.	3,907,045	09/23/1975	Dahl et al.	175	45	11/30/1976
	Q.	3,934,649	01/27/1976	Pasini, III et al.	166	254	07/25/1974
	R.	3,957,082	05/18/1976	Fuson et al.	137	625.41	09/26/1974
	S.	3,961,824	06/08/1976	Van Eek et al.	299	17	10/21/1974
	T.	4,011,890	03/15/1977	Andersson	137	625.4	11/04/1975
	U.	4,022,279	05/10/1977	Driver	166	271	12/23/1974
	V.	4,037,658	07/26/1977	Anderson	166	272	10/30/1975
	W.	4,073,351	02/14/1978	Baum	175	14	06/10/1976
	X.	4,089,374	05/16/1978	Terry	166	259	12/16/1976
	Y.	4,116,012	09/26/1978	Abe et al.	405	238	07/14/1977
	Z.	4,134,463	01/16/1979	Allen	175	53	06/22/1977
	AA.	4,156,437	05/29/1979	Chivens et al.	137	554	02/21/1978
<i>Handwritten: BB</i>	BB.	4,169,510	10/02/1979	Meigs	175	65	08/16/1977

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449 Information Disclosure Citation in an Application	Application No. 10/769,221	Applicant(s) Joseph A. Zupanick	
	Docket Number 067083.0214	Group Art Unit	Filing Date January 30, 2004

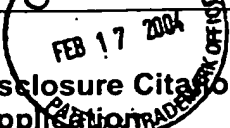
U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	4,189,184	02/19/1980	Green	299	8	10/13/1978
	B.	4,220,203	09/02/1980	Steeman	166	271	12/06/1978
	C.	4,221,433	09/09/1980	Jacoby	299	4	07/20/1978
	D.	4,224,989	09/30/1980	Blount	166	250	10/30/1978
	E.	4,257,650	03/24/1981	Allen	299	2	09/07/1978
	F.	4,278,137	07/14/1981	Van Eek, deceased	175	267	06/18/1979
	G.	4,283,088	08/11/1981	Tabakov et al.	299	2	05/14/1979
	H.	4,296,785	10/27/1981	Vitello et al.	141	105	07/09/1979
	I.	4,299,295	11/10/1981	Gossard	175	45	02/08/1980
	J.	4,303,127	12/01/1981	Freel et al.	166	266	02/11/1980
	K.	4,305,464	12/15/1981	Masszi	166	370	03/07/1980
	L.	4,312,377	01/26/1982	Knecht	137	625.19	08/29/1979
	M.	4,317,492	03/02/1982	Summers et al.	175	79	02/26/1980
	N.	4,328,577	05/04/1982	Abbott et al.	370	84	06/03/1980
	O.	4,366,988	01/04/1983	Bodine	299	14	04/07/1980
	P.	4,372,398	02/08/1983	Kuckes	175	45	11/04/1980
	Q.	4,386,665	06/07/1983	Dellinger	175	61	10/27/1981
	R.	4,390,067	06/28/1983	Willman	166	245	04/06/1981
	S.	4,396,076	08/02/1983	Inoue	175	265	04/27/1981
	T.	4,397,360	08/09/1983	Schmidt	175	61	07/06/1981
	U.	4,401,171	08/30/1983	Fuchs	175	267	12/10/1981
	V.	4,407,376	10/04/1983	Inoue	175	267	06/26/1981
	W.	4,437,706	03/20/1984	Johnson	299	7	08/30/1981
	X.	4,442,896	04/17/1984	Reale et al.	166	278	07/21/1982
	Y.	4,494,616	01/22/1985	McKee	175	67	07/18/1983
	Z.	4,512,422	04/23/1985	Knisley	175	99	06/28/1983
	AA.	4,519,463	05/28/1985	Schuh	175	61	03/19/1984
	BB.	4,527,639	07/09/1985	Dickinson, III et al.	175	61	03/02/1983
	CC.	4,532,986	08/06/1985	Mims et al.	166	50	05/05/1983

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449		Application No. 10/769,221	Applicant(s) Joseph A. Zupanick	
		Docket Number 067083.0214	Group Art Unit	Filing Date January 30, 2004

**Information Disclosure Citation
in an Application**

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	4,544,037	10/01/1985	Terry	166	369	02/21/1984
	B.	4,558,744	12/17/1985	Gibb	166	335	09/13/1983
	C.	4,565,252	01/21/1986	Campbell et al.	175	269	03/08/1984
	D.	4,573,541	03/04/1986	Josse et al.	175	78	08/09/1984
	E.	4,599,172	07/08/1986	Gardes	210	314	12/24/1984
	F.	4,600,061	07/15/1986	Richards	175	62	06/08/1984
	G.	4,605,076	08/12/1986	Goodhart	175	61	08/03/1984
	H.	4,611,855	09/16/1986	Richards	299	2	05/11/1984
	I.	4,618,009	10/21/1986	Carter et al.	175	267	08/08/1984
	J.	4,638,949	01/27/1987	Mancel	239	307	04/26/1984
	K.	4,646,836	03/03/1987	Goodhart	166	303	12/20/1984
	L.	4,674,579	06/23/1987	Geller et al.	175	45	03/07/1985
	M.	4,702,314	10/27/1987	Huang et al.	166	245	03/03/1986
	N.	4,705,431	11/10/1987	Gadelle et al.	405	267	12/20/1984
	O.	4,715,440	12/29/1987	Boxell et al.	166	100	07/14/1986
	P.	4,754,819	07/05/1988	Dellinger	175	61	03/11/1987
	Q.	4,756,367	07/12/1988	Puri et al.	166	263	04/28/1987
	R.	4,763,734	08/16/1988	Dickinson et al.	175	61	12/23/1985
	S.	4,773,488	09/27/1988	Bell et al.	175	61	08/08/1984
	T.	4,830,105	05/16/1989	Petermann	166	241	02/08/1988
	U.	4,836,611	06/06/1989	El-Saie	299	7	05/09/1988
	V.	4,842,081	06/27/1989	Parant	175	23	05/18/1988
	W.	4,844,182	07/04/1989	Tolle	175	215	06/07/1988
	X.	4,852,666	08/01/1989	Brunet et al.	175	61	04/07/1988
	Y.	4,883,122	11/28/1989	Puri et al.	166	248	08/22/1990
	Z.	4,978,172	12/18/1990	Schwoebel et al.	299	12	10/26/1989
	AA.	5,016,710	05/21/1991	Renard et al.	166	245	06/26/1987

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449 Information Disclosure Citation in an Application	Application No. 10/769,221	Applicant(s) Joseph A. Zupanick	
	Docket Number 067083.0214	Group Art Unit	Filing Date January 30, 2004

U.S. PATENT DOCUMENTS

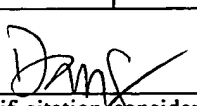
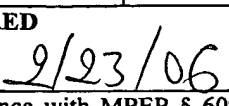
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	5,035,605	07/30/1991	Dinerman et al.	481	018	02/16/1990
	B.	5,036,921	08/06/1991	Pittard et al.	166	298	06/28/1990
	C.	5,074,360	12/24/1991	Guinn	166	281	07/10/1990
	D.	5,074,365	12/24/1991	Kuckes	175	40	09/14/1990
	E.	5,074,366	12/24/1991	Karlsson et al.	175	76	12/24/1991
	F.	5,082,054	01/21/1992	Kiamanesh	166	248	08/22/1990
	G.	5,111,893	05/12/1992	Kvello-Aune	175	258	12/24/1990
	H.	5,135,058	08/04/1992	Millgard et al.	175	71	04/26/1990
	I.	5,148,875	09/22/1992	Karlsson et al.	175	62	09/24/1991
	J.	5,165,491	11/24/1992	Wilson	175	62	04/29/1991
	K.	5,168,942	12/08/1992	Wydrinski	175	50	10/21/1991
	L.	5,174,374	12/29/1992	Hailey	166	55.8	10/17/1991
	M.	5,193,620	03/16/1993	Braddick	166	382	08/05/1991
	N.	5,194,859	03/16/1993	Warren	340	853.4	02/08/1991
	O.	5,197,553	03/30/1993	Leturno	175	57	08/14/1991
	P.	5,197,783	03/30/1993	Theimer et al.	299	17	04/29/1991
	Q.	5,199,496	04/06/1993	Redus et al.	166	366	10/18/1991
	R.	5,201,817	04/13/1993	Hailey	175	269	12/27/1991
	S.	5,217,076	06/08/1993	Masek	166	303	09/27/1991
	T.	5,240,350	08/31/1993	Yamaguchi et al.	405	143	11/07/1991
	U.	5,242,017	09/07/1993	Hailey	166	55.8	12/27/1991
	V.	5,242,025	09/07/1993	Neill et al.	175	26	06/30/1992
	W.	5,246,273	09/21/1993	Rosar	299	4	05/13/1991
	X.	5,255,741	10/26/1993	Alexander	166	278	12/11/1991
	Y.	5,271,472	12/21/1993	Leturno	175	107	10/14/1992
	Z.	5,301,760	04/12/1994	Graham	175	61	09/10/1992
	AA.	5,363,927	11/15/1994	Frank	175	67	09/27/1993

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449		Application No. 10/769,221		Applicant(s) Joseph A. Zupanick			
Information Disclosure Citation in an Application		Docket Number 067083.0214		Group Art Unit		Filing Date January 30, 2004	
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	5,385,205	01/31/1995	Hailey	166	55.8	10/04/1993
	B.	5,394,950	03/07/1995	Gardes	175	45	05/21/1993
	C.	5,402,851	04/04/1995	Baiton	166	369	05/03/1993
	D.	5,411,082	05/02/1995	Kennedy	166	181	01/26/1994
	E.	5,411,085	05/02/1995	Moore et al.	166	242	11/01/1993
	F.	5,411,104	05/02/1995	Stanley	175	65	02/16/1994
	G.	5,411,105	05/02/1995	Gray	175	69	06/14/1994
	H.	5,431,220	07/11/1995	Lennon et al.	166	55.7	03/24/1994
	I.	5,435,400	07/25/1995	Smith	175	61	05/25/1994
	J.	5,447,416	09/05/1995	Wittrisch	417	442	03/28/1994
	K.	5,450,902	09/19/1995	Matthews	166	268	05/14/1993
	L.	5,454,419	10/03/1995	Vloedman	166	277	09/19/1994
	M.	5,458,209	10/17/1995	Hayes et al.	175	61	06/11/1993
	N.	5,462,116	10/31/1995	Carroll	166	249	10/26/1994
	O.	5,462,120	10/31/1995	Gondouin	166	380	01/04/1993
	P.	5,469,155	11/21/1995	Archambeault et al.	340	853.4	07/11/1994
	Q.	5,477,923	12/26/1995	Jordan, Jr. et al.	66	313	01/26/1994
	R.	5,485,089	01/16/1996	Kuckes	324	346	10/08/1993
	S.	5,494,121	02/27/1996	Nackerud	175	263	11/29/1994
	T.	5,499,687	03/19/1996	Lee	175	317	11/18/1991
	U.	5,501,273	03/26/1996	Puri	166	252.5	10/04/1994
	V.	5,501,279	03/26/1996	Garg et al.	166	372	01/12/1995
	W.	5,584,605	12/17/1996	Beard et al.	405	128	06/29/1995
	X.	5,613,242	03/18/1997	Oddo	588	17	12/06/1994
	Y.	5,615,739	04/01/1997	Dallas	166	306	04/30/1996
	Z.	5,669,444	09/23/1997	Riese et al.	166	263	01/31/1996
	AA.	5,680,901	10/28/1997	Gardes	166	313	12/14/1995
	BB.	5,690,390	11/25/1997	Bithell	299	4	04/19/1996
	CC.	5,706,871	01/13/1998	Anderson et al.	141	59	08/15/1995
EXAMINER				DATE CONSIDERED			
Dang				2/23/06			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

PTO-1449		Application No. 10/769,221		Applicant(s) Joseph A. Zupanick			
Information Disclosure Citation in an Application		Docket Number 067083.0214		Group Art Unit		Filing Date January 30, 2004	
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	5,720,356	02/24/1998	Gardes	175	62	02/01/1996
	B	5,727,629	03/17/1998	Blizzard, Jr. et al.	166	298	01/24/1996
	C	5,735,350	04/07/1998	Longbottom et al.	166	313	10/15/1996
	D	5,771,976	06/30/1998	Talley	166	370	07/19/1996
	E	5,785,133	07/28/1998	Murray et al.	175	61	08/29/1995
	F	5,832,958	11/10/1998	Cheng	137	625.41	09/04/1997
	G	5,853,054	12/29/1998	McGarian et al.	175	267	07/22/1997
	H	5,853,056	12/29/1998	Landers	175	424	04/01/1996
	I	5,853,224	12/19/1998	Riese	299	13	01/21/1997
	J	5,863,283	01/26/1999	Gardes	588	250	02/10/1997
	K	5,868,202	02/09/1999	Hsu	166	256	09/22/1997
	L	5,868,210	02/09/1999	Johnson et al.	175	40	05/01/1996
	M	5,879,057	03/09/1999	Schwoebel et al.	299	17	11/12/1996
	N	5,884,704	03/23/1999	Longbottom et al.	16	313	08/20/1997
	O	5,917,325	06/29/1999	Smith	324	326	08/25/1997
	P	5,934,390	08/10/1999	Uthe	175	67	12/23/1997
	Q	5,938,004	08/17/1999	Roberts et al.	198	812	02/14/1997
	R	5,941,308	08/24/1999	Malone et al.	166	313	12/18/1996
	S	5,957,539	09/28/1999	Durup et al.	299	4	07/17/1997
	T	5,971,074	10/26/1999	Longbottom et al.	166	313	07/01/1998
	U	6,012,520	01/11/2000	Yu et al.	166	245	01/04/1999
	V	6,015,012	01/18/2000	Reddick	166	313	08/29/1997
	W	6,024,171	02/15/2000	Montgomery et al.	166	308	03/12/1998
	X	6,050,335	04/18/2000	Parsons	166	272.3	10/26/1998
	Y	6,056,059	05/02/2000	Ohmer	166	313	07/24/1997
	Z	6,065,550	05/23/2000	Gardes	175	62	02/19/1998
	AA	6,119,771	09/19/2000	Gano et al.	166	50	01/27/1998
	BB	6,135,208	10/24/2000	Gano et al.	166	313	05/28/1998
	CC	6,209,636	04/03/2001	Roberts et al.	166	117.6	03/07/1999
EXAMINER				DATE CONSIDERED			
							
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

PTO-1449 Information Disclosure Citation in an Application	Application No. 10/769,221	Applicant(s) Joseph A. Zupanick	
	Docket Number 067083.0214	Group Art Unit	Filing Date January 30, 2004

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
100	A.	6,280,000	08/28/2001	Zupanick	299	12	11/20/1998
	B.	6,349,769	02/26/2002	Ohmer	166	313	03/03/2000
104	C.	6,357,523	03/19/2002	Zupanick	166	52	11/19/1999
113	D.	6,425,448	07/30/2002	Zupanick et al.	175	61	01/30/2001
139	E.	6,439,320	08/27/2002	Zupanick	166	313	03/03/2000
	F.	6,450,256	09/17/2002	Mones	166	250.01	06/06/2001
117	G.	6,454,000	09/24/2002	Zupanick	166	243	10/24/2000
	H.	6,457,540	10/01/2002	Gardes	175	62	01/29/2001
137	I.	6,478,085	11/12/2002	Zupanick	166	50	02/20/2001
141	J.	6,497,556	12/24/2002	Zupanick	417	85	04/24/2001
140	K.	6,561,288	05/13/2003	Zupanick	175	69	06/20/2001
	L.	6,566,649	05/20/2003	Mickael	250	269.3	05/26/2000
	M.	6,571,888	06/03/2003	Comeau	175	61	05/14/2001
194	N.	6,575,235	06/10/2003	Zupanick	166	50	09/15/2002
	O.	6,577,129	06/10/2003	Thompson	324	338	01/19/2002
	P.	6,585,061	07/01/2003	Radzinski	175	45	10/15/2001
	Q.	6,590,202	07/08/2003	Mickael	250	269.4	05/08/2001
	R.	6,591,903	07/15/2003	Ingle	166	50	12/06/2001
	S.						
	T.						
	U.						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
--	--	---	------

EXAMINER	DATE CONSIDERED
<i>Dmf</i>	<i>2/23/06</i>

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449		Application No. 10/769,221		Applicant(s) Joseph A. Zupanick	
Information Disclosure Citation in an Application		Docket Number 067083.0214		Group Art Unit Filing Date January 30, 2004	

U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
118	A.	6,598,686	07/29/2003	Zupanick	175	62	01/24/2001
193	B.	6,604,580	08/12/2003	Zupanick	166	245	04/15/2002
130	C.	6,604,910	08/12/2003	Zupanick	417	36	04/24/2001
	D.	6,607,042	08/19/2003	Hoyer et al.	175	38	05/17/2001
	E.	6,636,159	10/21/2003	Winnacker	340	854.3	06/25/2000
	F.	6,639,210	10/28/2003	Odom et al.	250	269.6	03/14/2001
	G.	6,646,411	11/11/2003	Thompson et al.	324	338	01/19/2002
	H.	6,653,839	11/25/2003	Yuratich et al.	324	355	12/28/2001
120	I.	6,662,870	12/16/2003	Zupanick	166	245	01/03/2001
184	J.	6,668,918	12/30/2003	Zupanick	166	50	06/07/2002
213	K.	6,679,322	01/20/2004	Zupanick	166	50	09/26/2002
134	L.	6,681,855	01/27/2004	Zupanick	166	50	10/19/2001
118	M.	6,688,388	02/10/2004	Zupanick	166	50	06/07/2002
	N.						
	O.						
	P.						
161	Q.						
	R.						
	S.						
	T.						
	U.						
	V.						

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

NON-PATENT DOCUMENTS	
DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
EXAMINER <i>Damp</i>	2/23/06

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449 Information Disclosure Citation in an Application	Application No. 10/769,221	Applicant(s) Joseph A. Zupanick	
	Docket Number 067083.0214	Group Art Unit	Filing Date January 30, 2004

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	2002/0074120	06/20/2002	Scott	166	313	12/15/2000
	B.	2002/0074122	06/20/2002	Kelly et al.	166	313	05/16/2001
	C.	2002/0050358	05/02/2002	Algeroy	166	313	09/27/2001
	D.	2003/0075334	04/24/2003	Haugen et al.	166	313	09/16/2002
	E.	2003/0062198	04/03/2003	Gardes	175	61	09/30/2002
	F.	2003/0106686	06/12/2003	Ingle et al.	166	245	12/06/2001
	G.	2003/0066686	04/10/2003	Conn	175	57	10/04/2002
166	H.	2001/0096336	11/01/2001	Zupanick	175	161	02/20/2001
201	I.	2002/0189801	12/19/2002	Zupanick	166	50	07/01/2002
	J.	2002/0108746	08/15/2002	Zupanick	166	50	04/15/2002
	K.	2002/0117297	08/29/2002	Zupanick	166	50	04/15/2002
188	L.	2004/0007389	01/15/2004	Zupanick	175	61	07/12/2002
188	M.	2004/0007390	01/15/2004	Zupanick	175	61	07/12/2002
	N.						
	O.						
	P.						
161	Q.						
	R.						
	S.						
	T.						
	U.						
	V.						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
--	--	---	------

EXAMINER

*Dang**2/23/06*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449		Application No. 10/769,221		Applicant(s) Joseph A. Zupanick	
Information Disclosure Citation in an Application		Docket Number 067083.0214		Filing Date January 30, 2004	

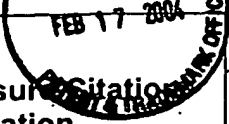
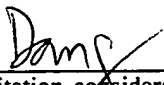
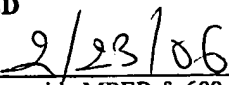
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE

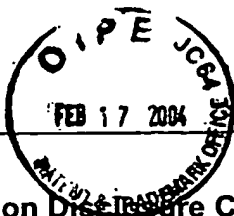
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>all</i>	A.	94/21889	09/29/1994	WO	E21B	43/24	X	
	B.	0 875 661 A1	11/04/1998	EP	E21B	43/30	X	
	C.	0 952 300 A1	10/27/1999	EP	E21B	7/12	X	
	D.	00/31376	06/02/0000	WO	E21C	41/00	X	
	E.	WO 99/60248	11/25/1999	PCT	E21B	43/30	X	
	F.	WO 00/79099	12/28/2000	PCT	E21B	43/25	X	
	G.	WO 02/059455	08/01/2002	PCT	E21B	43/00	X	
	H.	WO 02/18738	03/07/2002	PCT	E21B	07/04	X	
	I.	GB 2297 988	08/21/1996	UK	E21B	07/08	X	
	J.	GB 2347157	08/30/02	UK	E21B	43/00	X	
	K.	WO 03/102348	12/11/2003	PCT	E21B		X	
	L.	WO 03/061238	08/08/2002	PCT	E21B	43/00	X	
	M.	SU-1448078-A1	03/25/1987	Russia	E21	F 5/00-F 7/00		X
	N.	SU-1770570-A1	03/30/1990	Russia	E21	F 7/00		X
<i>all</i>	O.	SU-750108	06/26/1975	Russia	E21	C 45/00		X

NON-PATENT DOCUMENTS		
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<i>all</i>	P. Examiner of Record, Office Action Response regarding the Interpretation of the three Russian Patent Applications listed above under Foreign Patent Documents (9 pages)	Date Unknown
	Q.	
	R.	
	S.	
	T.	

EXAMINER <i>Dan</i>	DATE CONSIDERED <i>2/23/06</i>
------------------------	-----------------------------------

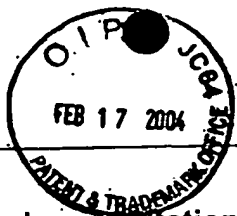
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449				Application No. 10/769,221	Applicant(s) Joseph A. Zupanick	
Information Disclosure in an Application		Docket Number 067083.0214		Group Art Unit	Filing Date January 30, 2004	
U.S. PATENT DOCUMENTS						
		DOCUMENT NO.	DATE	NAME	CLASS	FILING DATE
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NO.	DATE	COUNTRY	CLASS	TRANSLATION YES NO
NON-PATENT DOCUMENTS						
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE
	A.	McCray and Cole, "Oil Well Drilling and Technology," University of Oklahoma Press, pp 315-319.				1959
	B.	Berger and Anderson, "Modern Petroleum," Penn Well Books, pp. 106-108.				1978
	C.	Arfon H. Jones et al., A Review of the Physical and Mechanical Properties of Coal with Implications for Coal-Bed Methane Well Completion and Production, Rocky Mountain Association of Geologists, pages 169-181				1988
	D.	Howard L. Hartman, et al.; "SME Mining Engineering Handbook;" Society for Mining, Metallurgy, and Exploration, Inc.; pp. 1946-1950, 2nd Edition, Volume 2.				1992
	E.	Dave Hassan, Mike Chemichen, Earl Jensen, and Morley Frank; "Multi-lateral technique lowers drilling costs, provides environmental benefits", Drilling Technology, pp. 41-47.				10/1999
	F.	Gopal Ramaswamy, "Production History Provides CBM Insights," Oil & Gas Journal, pages 49, 50 and 52.				04/02/2001
	G.	Weiguo Chi and Luwu Yang, "Feasibility of Coalbed Methane Exploitation in China," Horizontal Well Technology, page 74				09/2001
	H.	Nackerud Product Description, Harvest Tool Company, LLC, 1 page.				Received 09/27/2001
	I.	Gopal Ramaswamy, "Advanced Key for Coalbed Methane," The American Oil & Gas Reporter, Pages 71 & 73				10/2001
	J.	Joseph C. Stevens, Horizontal Applications For Coal Bed Methane Recovery, Strategic Research Institute, pages 1-10 (slides)				03/25/2002
	K.	R.J. "Bob" Stayton, "Horizontal Wells Boost CBM Recovery", Special Report: Horizontal & Directional Drilling, The American Oil & Gas Reporter, pp. 71-75				08/2002
	L.	P. Jackson and S. Kershaw, "Reducing Long Term Methane Emissions Resulting from Coal Mining, Energy Convers. Mgmt, Vol. 37, Nos 6-8, pp. 801-806				1996
	M.	Susan Eaton, "Reversal of Fortune", New Technology Magazine, pp. 30-31				09/2002
	N.	James Mahony, "A Shadow of Things to Come", New Technology Magazine, pp. 28-29				09/2002
	O.	Documents Received from Third Party, Great Lakes Directional Drilling, Inc., (12 pages)				Received 09/12/02
EXAMINER				DATE CONSIDERED		
						
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.						

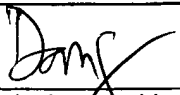
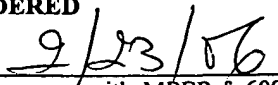


PTO-1449		Application No. 10/769,221		Applicant(s) Joseph A. Zupanick	
Information Disclosure Citation in an Application		Docket Number 067083.0214		Group Art Unit	Filing Date January 30, 2004
U.S. PATENT DOCUMENTS					
	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS FILING DATE
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS TRANSLATION YES NO
NON-PATENT DOCUMENTS					
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE
A.	Robert W. Taylor and Richard Russell, "Multilateral Technologies Increase Operational Efficiencies in Middle East, Oil & Gas Journal, pp. 76-80				03/16/1998
B.	Adam Pasiczynk, "Evolution Simplifies Multilateral Wells", Directional Drilling, pp. 53-55				06/2000
C.	Steven S. Bell, "Multilateral System with Full Re-Entry Access Installed", World Oil, p. 29				06/1996
D.	Pascal Breant, "Des Puits Branches, Chez Total : les puits multi drains", Total Exploration Production, pp. 1-5				01-1999
E.	Chi, Weiguo, "A Feasible Discussion on Exploitation Coalbed Methane through Horizontal Network Drilling in China", SPE 64709, Society of Petroleum Engineers (SPE International), 4 pages				11/7/2000
F.	Chi, Weiguo, "Feasibility of Coalbed Methane Exploitation in China", synopsis of paper SPE 64709, 1 page				11/7/2000
G.	Ian D. Palmer et al., "Coalbed Methane Well Completions and Stimulations", Chapter 14, pp. 303-339, Hydrocarbons from Coal, Published by the American Association of Petroleum Geologists				1993
H.	Zupanick, U.S. Patent Application Serial No. 10/264,535, "Method and System for Removing Fluid From a Subterranean Zone Using an Enlarged Cavity"				08/15/2003
I.	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed November 6, 2003 (8 pages) re International Application No. PCT/US 03/21626				07/11/2003
J.	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed November 5, 2003 (8 pages) re International Application No. PCT/US 03/21627				07/11/2003
K.	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed November 4, 2003 (7 pages) re International Application No. PCT/US 03/21628				07/11/2003
L.	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed December 5, 2003 (8 pages) re International Application No. PCT/US 03/21750				07/11/2003
EXAMINER			DATE CONSIDERED		
Dmg			2/23/06		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.					

PTO-1449		Application No. 10/769,221		Applicant(s) Joseph A. Zupanick		
Information Disclosure Citation in an Application		Docket Number 067083.0214		Group Art Unit		
				Filing Date January 30, 2004		
U.S. PATENT DOCUMENTS						
		DOCUMENT NO.	DATE	NAME	CLASS	
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NO.	DATE	COUNTRY	CLASS	
					TRANSLATION	
					YES NO	
NON-PATENT DOCUMENTS						
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE
	A.	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed December 19, 2003 (8 pages) re International Application No. PCT/US 03/28137				Filed 09/09/2003
	B.	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) mailed February 4, 2004 (8 pages) re International Application No. PCT/US 03/26124				Filed 09/09/2003
	C.	Smith, Maurice, "Chasing Unconventional Gas Unconventionally," CBM Gas Technology, New Technology Magazine, October/November 2003, pp. 1-4.				10/2003 11/2003
	D.	Gardes, Robert "A New Direction in Coalbed Methane and Shale Gas Recovery," (to the best of Applicants' recollection, first received at The Canadian Institute Coalbed Methane Symposium conference on June 16 and June 17, 2002), 1 page of conference flyer, 6 pages of document.				06/16/2002 - 06/17/2002
	E.	Gardes, Robert, "Under-Balance Multi-Lateral Drilling for Unconventional Gas Recovery," (to the best of Applicants' recollection, first received at The Unconventional Gas Revolution conference on December 9, 2003), 4 pages of conference flyer, 33 pages of document.				12/09/2003
	F.	Boyce, Richard "High Resolution Seismic Imaging Programs for Coalbed Methane Development," (to the best of Applicants' recollection, first received at The Unconventional Gas Revolution conference on December 10, 2003), 4 pages of conference flyer, 24 pages of document.				12/10/2003
	G.	Mark Mazzella and David Strickland, "Well Control Operations on a Multiwell Platform Blowout," WorldOil.com - Online Magazine Article, Volume 22, Part I - pp. 1-7, and Part II - pp. 1-13.				01/2002
	H.	Vector Magnetics LLC, Case History, California, May 1999, "Successful Kill of a Surface Blowout," pp. 1-12.				05/1999
	I.	Cudd Pressure Control, Inc, "Successful Well Control Operations-A Case Study: Surface and Subsurface Well Intervention on a Multi-Well Offshore Platform Blowout and Fire," pp. 1-17, http://www.cuddwellcontrol.com/literature/successful/successful_well.htm .				2000
	J.	R. Purl, et al., "Damage to Coal Permeability During Hydraulic Fracturing," pp. 109-115 (SPE 21813)				1991
	K.	U.S. Dept. of Energy - Office of Fossil Energy, "Multi-Seam Well Completion Technology: Implications for Powder River Basin Coalbed Methane Production," pp. 1-100, A-1 through A10				09/2003
	L.	U.S. Dept. of Energy - Office of Fossil Energy, "Powder River Basin Coalbed Methane Development and Produced Water Management Study," pp. 1-111, A-1 through A14				09/2003
EXAMINER				DATE CONSIDERED		
Dmg				2/23/06		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.						



PTO-1449		Application No. 10/769,221		Applicant(s) Joseph A. Zupanick	
Information Disclosure Citation in an Application		Docket Number 067083.0214		Group Art Unit	Filing Date January 30, 2004
U.S. PATENT DOCUMENTS					
	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS FILING DATE
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS TRANSLATION YES NO
NON-PATENT DOCUMENTS					
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE
A.	Zupanick, U.S. Patent Application, entitled "Method and System for Underground Treatment of Materials," SN 10/142,817				05/08/2002
B.	Zupanick, U.S. Patent Application, entitled "Multi-Well Structure for Accessing Subterranean Deposits," SN 09/788,897				02/20/2001
C.	Zupanick, U.S. Patent Application, entitled "Slant Entry Well System and Method," SN 10/004,316				10/30/2001
D.	Zupanick, U.S. Patent Application, entitled "Undulating Well Bore", SN 10/194,366				07/12/2002
E.	Zupanick, U.S. Patent Application, entitled "Accelerated Production of Gas from a Subterranean Surface", SN 10/246,052				09/17/2002
F.	Zupanick, U.S. Patent Application, entitled "Ramping Well Bores", SN 10/194,367				07/12/2002
G.	Zupanick, U.S. Patent Application, entitled "System and Method for Subterranean Access", SN 10/227,057				08/22/2002
H.	Zupanick, U.S. Patent Application, entitled "Method and System for Controlling Pressure in a Dual Well System", SN 10/244,082				09/12/2002
I.	Zupanick, U.S. Patent Application, entitled "Wellbore Sealing System and Method," SN 10/194,368				07/12/2002
J.	Zupanick, U.S. Patent Application, entitled "Wellbore Sealing System and Method," SN 10/194,422 PUBLISHED				07/12/2002
K.	Zupanick, U.S. Patent Application, entitled "Three-Dimensional Well System for Accessing Subterranean Zones," SN 10/244,083				09/12/2002
L.	Zupanick, U.S. Patent Application, entitled "Method of Drilling Lateral Wellbores from a Slant Well Without Utilizing a Whipstock", SN 10/267,426				10/08/2002
M.	Zupanick, U.S. Patent Application, entitled "Method and System for Circulating Fluid in a Well System", SN 10/323,192				12/18/2002
N.	Zupanick, U.S. Patent Application, entitled "Method and System for Removing Fluid from a Subterranean Zone Using and Enlarged Cavity", SN 10/264,535				10/03/2002
EXAMINER <i>Dang</i>			DATE CONSIDERED <i>2/23/06</i>		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.					

PTO-1449		Application No. 10769,221		Applicant(s) Joseph A. Zupanick	
Information Disclosure Citation in an Application		Docket Number 067083.0214		Filing Date January 30, 2004	
U.S. PATENT DOCUMENTS					
	DOCUMENT NO.	DATE	NAME	CLASS	FILING DATE
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NO.	DATE	COUNTRY	CLASS	TRANSLATION YES NO
NON-PATENT DOCUMENTS					
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE
A.	Zupanick, U.S. Patent Application, entitled "Method and System for Controlling the Production Rate ...," SN 10/328,408				12/23/2002
B.	Rial, U.S. Patent Application, entitled "Method and System for Accessing a Subterranean Zone from a Limited Surface Area, SN 10/188,141				07/01/2002
C.	Zupanick, U.S. Patent Application, entitled "Three-Dimensional Well System for Accessing Subterranean Deposits from the Surface and Tools Therefor," SN 10/630,345				07/29/2003
D.	Zupanick, U.S. Patent Application, entitled "Method and System for Testing Partially Formed Hydrocarbon Well for Evaluation and Well Planning Refinement," SN 10/715,300				11/17/2003
E.	Rial, U.S. Patent Application, entitled "Method and System for Recirculating Fluid in a Well System," SN 10/457,103				06/05/2003
F.	Zupanick, U.S. Patent Application, entitled "Wellbore Sealing System and Method," SN 10/406,037 Published				07/12/2002
G.	Seams, U.S. Patent Application, entitled "Method and System for Extraction of Resources from a Subterranean Well Bore," SN 10/723,322				11/26/2003
H.	Zupanick, U.S. Patent Application, entitled "Method and System for Accessing Subterranean Deposits from the Surface," SN 10/641,856				08/15/2003
I.	Zupanick, U.S. Patent Application, entitled "Slant Entry Well System and Method," SN 10/749,884				12/31/2003
J.	Zupanick, U.S. Patent Application, entitled "Method and System for Accessing a Subterranean Deposits from the Surface, SN 10/761,629				01/20/2004
K.					
L.					
M.					
N.					
O.					
P.					
EXAMINER			DATE CONSIDERED		
					
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.					